

TERMA RUJUKAN / TERMS OF REFERENCE (TOR)

- Title :** Appointment of technical expert to review and comment the draft detail energy audit (DEA) report Energy Audit Conditional Grant under RMK-12 (EACG 2.0) for Industrial Sector and Commercial Sector
- Project :** Energy Audit Conditional Grant 2.0

1.0 BACKGROUND

The Sustainable Energy Development Authority Malaysia (SEDA Malaysia) is a statutory body formed under the Sustainable Energy Development Authority Act 2011 [Act 726]. The key function of SEDA is to promote, stimulate, facilitate and develop sustainable energy (Renewable Energy & Energy Efficiency).

As a continuity from Energy Audit Conditional Grant under RMK-11 Energy Efficiency Projects for year 2016-2020, the Energy Audit Conditional Grant (EACG 2.0) is an energy efficiency programme under the 12th Malaysia Plan (RMK-12) for the implementation year of 2021-2025. This programme is supported by grants which were allocated for the year 2021 until 2025 to commercial and industrial sectors to collaborate with local Energy Service Companies (ESCOs) registered with the Energy Commission (ST) to conduct energy audit in their buildings.

The programme is executed by Ministry of Energy and Natural Resources (KeTSA). SEDA Malaysia is the implementing agency and Energy Commission (ST) is the coordinator for this program. SEDA Malaysia is the implementing agency for both industrial and commercial sector.

Implementation of project consists of:

- Executing Ministry: Ministry of Energy and Natural Resources
- Secretariat: Energy Commission (ST)
- Implementing agency: SEDA Malaysia (Industrial & Commercial Sector)

2.0 OBJECTIVE

SEDA Malaysia to appoint a technical expert to review and comment draft report EACG 2.0 for industrial and commercial sector.

3.0 SCOPE OF WORKS

3.1 TECHNICAL EXPERT (TE)

The appointed Technical Expert (TE) shall provide services in terms of technical expertise, information gathering, and technical analysis of EACG 2.0 DEA draft report in industrial sector:

- a) To review the overall Details Energy Audit (DEA) report submitted by installation under industrial and commercial sector;
- b) To review and check audited system conducted by Energy Service Company (ESCO);
- c) To review and check Energy Saving Measures (ESMs) suggested by Energy Service Company (ESCO);
- d) To review and analyze the data provided in the DEA report;
- e) To ensure the DEA report follow the standard reporting of SEDA Malaysia;
- f) To comment and remarks the DEA report for correction (if any);
- g) To ensure the Energy Saving Measured (ESM) meet the minimum targeted energy saving for industrial and commercial sector (minimum of 10% and 20% of energy saving); and
- h) To submit DEA report which have been reviewed to SEDA Malaysia within 5 - 7 days period.

4.0 RATE (LOCAL TECHNICAL EXPERT)

TECH Division would like to propose the rate for the technical expert to be fixed at RM500.00 per report in view of their expertise.

The overall estimated cost of this project is shown in the table below:

No.	Tasks and deliverables	Report	Man/ hours	Rate per hours	Rate (Per Report)
1	To review and verify DEA report	1*	5	100**	500.00

* Total number of reports is according to yearly qouta

* * The hourly rate is based on the *kadar bayaran bukan kakitangan awam* as in the *Garis Panduan Pelantikan Penasihat Teknikal SEDA Malaysia*.

5.0 DELIVERABLES AND TIMELINE

The proses of review and comment need to be completed in 5 – 7 days maximum. The TE shall perform the Services as described in Terms of Reference and in accordance with the timeline. All outputs will be technically cleared, verified, and accepted by the SEDA Malaysia before payment will be made.

6.0 TERMS OF PAYMENT

The fee is payable upon satisfactory completion and acceptance of the deliverables by SEDA. Please refer to Item 4.0 and 5.0 of payment rate, and deliverables & timeline, respectively. Prices are in Malaysian Ringgit (RM).

7.0 TECHNICAL EXPERT (TE) QUALIFICATION AND REQUIREMENT

As attached in **APPENDIX 1**

8.0 CONFIDENTIALITY

Except with the prior written consent or the instructions by SEDA Malaysia, the technical experts shall not at any time communicate to any person or body or entity any confidential information disclosed to the technical experts for the purpose of the provision of the Project nor shall the technical experts makes public any information as to the recommendations, assessments and opinions formulated in the course of or as a result of the provision and performance of the Project, nor shall the technical experts make or causes to be made any press statement or otherwise relating to the Project nor publish or cause to be published any material whatsoever relating to the Project without the prior written approval of SEDA Malaysia and the foregoing obligations shall not be rendered void by suspension, termination or expiry of this Agreement for whatsoever cause.

9.0 INTELLECTUAL PROPERTY RIGHTS

The intellectual property rights and all other proprietary rights whatsoever in any literary works developed or prepared in the course of the Project and any derivative works developed thereafter, shall vest and shall be the absolute property of the SEDA Malaysia throughout their preparation and at all times thereafter. The intellectual property and license of the energy simulation software is lies under the original owner of the software.

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1. KRITERIA MANDATORI

- a) Warganegara Malaysia; dan
- b) Kelulusan ijazah/ijazah sarjana/Doktor Falsafah (PhD) dalam bidang berkaitan (Kejuruteraan, Arkitek, Perancang Bandar, Sains dan yang berkaitan).

2. PENILAIAN TEKNIKAL

a) KELAYAKAN DAN KOMPETENSI

- Berdaftar sebagai professional / orang kompeten dengan mana-mana Badan Profesional / Institusi Pengajian Tinggi / Pihak Berkuasa / Suruhanjaya Tenaga.

b) PENGALAMAN KERJA

- Pengalaman kerja dalam bidang penjimatan tenaga/ pengurusan tenaga;
- Penglibatan atau sumbangan dalam aktiviti audit tenaga secara terperinci dalam sektor industri;
- Berkebolehan untuk membaca dan menganalisis dokumen teknikal tenaga di bangunan (seperti *building drawing plan and electricity drawing*);
- Mempunyai pengalaman dalam membuat analisis data berkaitan sektor industri;

* PERMOHONAN SEBAGAI *TECHNICAL EXPERT* : **MOHON MENYEDIAKAN PERKARA DI ATAS SECARA TERPERINCI **SEBELUM 30 APRIL 2022.****

Sebarang Pertanyaan:

TECH SEDA MALAYSIA

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